# Figi

GTG TCA ACC TGG TTG ATA CGT AGT GGT GAA CCT GTG CAA CAC CGC ACT GAA TTC CCG TTC ATC GCA TTC TTA ACG ACA GAG AGA ACA ATG TGT ACA GGT TCA CTA GTC TCA ACG AGA GCA GTA CTC ACA GCT GGT CAT TGT GTT TGC TCA CCA TTG CCA GTG ATT CGG gtalagagat cgalctg gtgggtttgcatagattttaatgtctatatacttggtcttatttcag GTT TCA TTT CTC ACA CTG AGG AAT GGC GAC CAA CAA GGC ATC CAT CAC CAA CCG TCT GGA GTT AAG GTG GCA CCA GGA TAC ATG 400 CCC TCT TGT ATG TCG GCA CGA CAG AGG AGA CCA ATC GCA CAG ACA CTC AGT GGA TTC GAT 460 ATT GCA ATT GTA ATG CTG GCT CAA ATG GTC AAC TTA CAG AGT GGA ATC AGA GTG ATC AGT 520 CTG CCA CAG CCA TCG GAT ATC CCG CCA CCT GGA ACT GGT GTT TTC ATT GTT GGT TAT GGA AGG GAT GAT AAC GAC CGT GAT CCG TCA CGT AAG AAT GGT GGA ATA TTG AAG AAA GLGAGYT 701 gtctgtctgtctacctgatccggttgttgtattggtcagagccttgataataacaactgtgtttggatgactttgtgac 780 agttcagtagcagagtgatttccatctcggtcattgtgttggtgaggtgaggtgacgtgatgtgaggtgaggtgaggtg 859 aadgatggaagtgtgttgttgtacatgaagtagggggtcaatgtgtttgagtatgtgtttggagagtggtgagatggag 1096 acgitgitgitactgitactgitgitgitgitgittgittgittgcaccacag GGT CGA GCG ACT ATA ATG GAA TGC CGA CAT GCG ACC AAT GGC AAT CCT ATA TGT GTG AAA GCA GGT CAG AAT TTC GGA CAG TTA CCC GCT CCA GGT GAC AGT GGT GGA CCT CTC CCA TCC CTT CAA GGT CCA GTA CTC GGT 1445 GTC GTA TCA CAT GGT GTC ACA CTG CCA AAC CTT CCC GAT ATC ATT GTC GAG TAT GCC AGT 1505 GTG GCT AGA ATG TTG GAT TTT GTA CGC TCC AAT ATT TGA Fig. 1. Consensus sequence of 3 PCR clones of Schistosoma mansoni cercarial elastase gene. Nucleotide numbers

correspond to the open reading frame of the cDNA sequence reported by Newport et al. (1988). The 2 introns are

shown in lower case text. Splice signal and branch formation sequences are shown in underlined text.

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Figure 2 - Production of Construct pGEXCEL

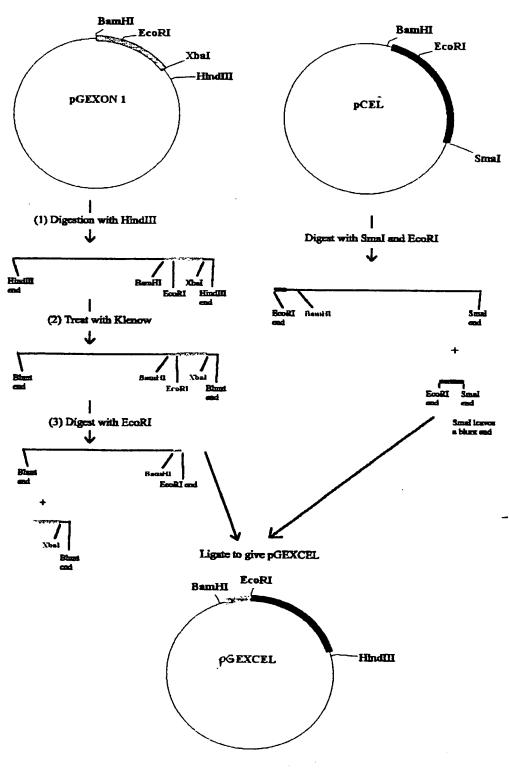
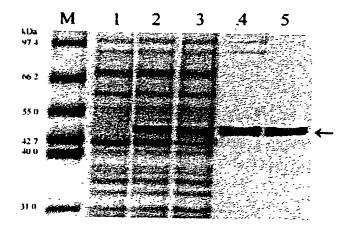


Figure 3 - SDS-PAGE Showing Purification of the Recombinant Protein Sm30-GST



M = Protein Mid-Range Molecular Weight Markers

1 = Total proteins from uninduced E. coli carrying plasmid pGEXCEL

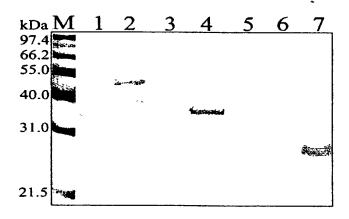
2 = Total proteins from IPTG-induced E. coli carrying pGEXCEL, grown at 30°C

3 = Soluble lysate of IPTG-induced E. coll as in lane 2

4 = Fraction containing Sm30-GST following ion-exchange chromatography
5 = Fraction containing Sm30-GST following gel filtration

The recombinant protein Sm30-GST is indicated by "←"

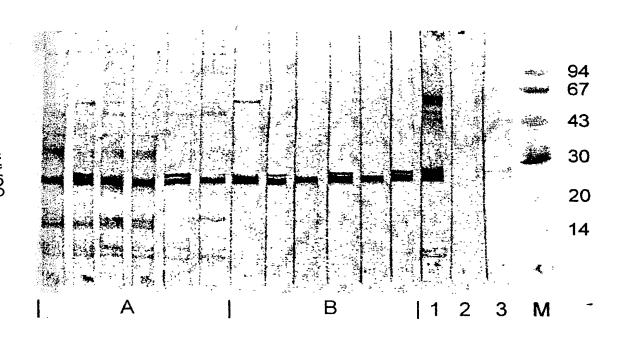
Western immunoblot showing antibody reactivity of serum from rabbit immunized with Sm30-GST.



#### Antigens in lanes:

1

- 1. Horse albumin
- 2. Recombinant fusion protein Sm30-GST
- 3. " " Sm30Ex1-GST
- 4. " " Sm30Ex2-GST
- 5. " " Sm30Ex3-GST
- 6. Recombinant Sj26GST
- 7. S. mansoni cercarial transformation fluid (CTF)



A = sera from 6 mice immunized with S. mansoni CTF

B = sera from 6 mice immunized with Sm30-GST

1 = serum from rabbit BR67

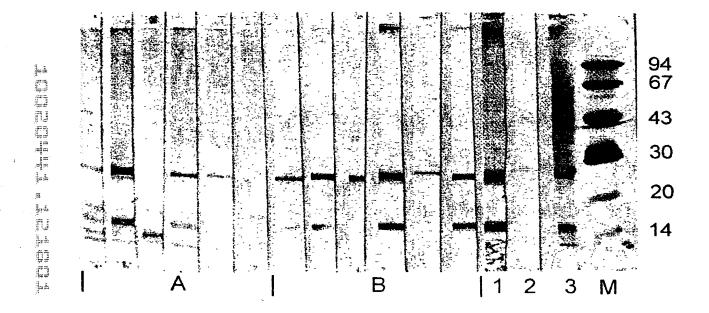
2 = normal rabbit serum

3 = larval antigens stained with protogold

M = molecular weight standards

## Figure 6

Reactivity of sera from immunized mice against S. haematobium cercarial antigens.



A = sera from 6 mice immunized with S. mansoni CTF

B = sera from 6 mice immunized with Sm30-GST

1 = serum from rabbit BR67

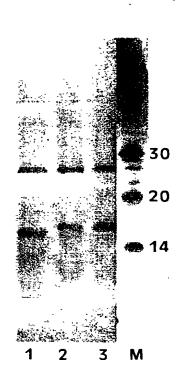
2 = normal rabbit serum

3 = larval antigens stained with protogold

M = molecular weight standards

Figure 7:

Cross-reactivity of antibodies raised against S. haematobium 27kDa larval protease against antigens of S. mansoni and S. margrebowiei.



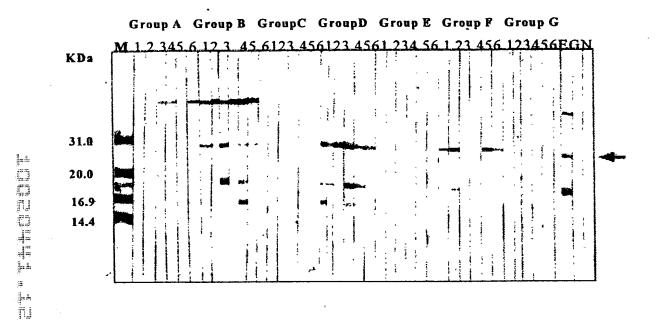
#### Antigens in lanes:

- 1. S. mansoni cercarial antigens
- 2. S. haematobium cercarial antigens
- 3. S. margrebowiei cercarial antigens
- M = molecular weight standards (kDa)

Rabbit antiserum used to probe antigens in lanes 1-3 was raised against the 27kDa S. haematobium larval protease using the same methods as for BR67, the anti-S. mansoni 27kDa larval protease antiserum.

### Figure 8:

Antibody reactivity of mice immunized with recombinant fusion proteins against S. mansoni cercarial transformation fluid (CTF).



Group	Immunogen
<b>A</b>	Alum and PBS alone (control mice).
$_{\cdot}\mathbf{B}$	CTF.
С	Recombinant Sj26.
D	Recombinant Sm30-GST. Recombinant Sm30Ex1-GST
E	Recombinant Sm30Ex1-GST
F	Recombinant Sm30Ex2-GST
G	Recomvinant Sm30Ex3-GST

#### Control Sera

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E = Rabbit serum BR67 (anti-27kDa S. mansoni larval protease)

G = Rabbit serum 1093X (anti-S. japonicum GST)

N = Normal rabbit serum

M = Molecular weight markers.

M =